

537, 052

10/537 052

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/058238 A1

(51) International Patent Classification⁷: **A61K 31/165**

(21) International Application Number:
PCT/US2003/040511

(22) International Filing Date:
19 December 2003 (19.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/436,126 23 December 2002 (23.12.2002) US

(71) Applicant (for all designated States except US): **ALCON, INC.** [CH/CH]; Bösch 69, P.O. Box 62, CH-6331 Hünenberg (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SHEPARD, Allan** [US/US]; 6404 High Brook Drive, Fort Worth, TX 76132 (US). **CLARK, Abbot, F.** [US/US]; 5603 Rachel Court, Arlington, TX 76017 (US). **JACOBSON, Nasreen** [US/US]; 6813 Trinity Landing Drive, N., Fort Worth, TX 76132 (US).

(74) Agents: **COPELAND, Barry, L.** et al.; Alcon Research, Ltd., R & D Counsel Q-148, 6201 South Freeway, Fort Worth, TX 76134-2099 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF CATHEPSIN K INHIBITORS FOR THE TREATMENT OF GLAUCOMA

(57) Abstract: Compositions containing inhibitors of cathepsin K (CTSK) expression and/or activity are provided. Methods for the treatment of glaucoma using the compositions of the invention are further provided.



WO 2004/058238 A1